

JACKSON WATER PRECINCT

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Jackson, NH 03846
Phone: 603-383-6539

November 30, 2009

US Environmental Protection Agency
Region 1
1 Congress Street, Suite 1100
Boston, Ma 02114-2023

Subject: General Discharge Permit- Water Treatment Plant
Jackson Water Precinct, New Hampshire (NHG640011)

This Notice of Intent (NOI) is submitted on behalf of the Jackson Water Precinct. The only discharge going to the receiving water will be effluent from the water treatment facility filter backwash system, as identified in the NOI.

The normal flow path of filter backwash effluent is recycled back to the system head works. The filter plant has been in operation since 2003, to date there has not been a discharge to the NPDES Outfall. We request that our general discharge permit be re-authorized in the case that a discharge to the outfall becomes necessary.

Thank you for your consideration,



Scott Hayes
Water System Manager, Jackson Water Precinct

cc: Roy Gilbert, NHDES

encl. site map
topographic map

rev'd
12/9/09

effluent limits and other conditions of the general permit). This description should include all treatment methods used on the wastewater prior to discharge including lagoons, baffles, filter presses etc. If lagoons are used at the facility, please include the number and size of lagoons; the size and elevation of the entry pipe; the time of travel from the entry point of the discharge into the lagoon to the entry point to the receiving water; and the length of backwash cycle for any combination of number of filters. (attach extra sheets if necessary):

Jackson Water Precinct has not discharged to date, backwash water is recycled.

IF the NPDES outfall is used, the following description explains the process:

5. Please provide a diagram depicting the treatment methods, outfalls, and receiving water.

6. Number of outfalls: 1

For each outfall:

7. What is the proposed sampling location(s) and proposed consistent times of the month for collecting samples:

In the treatment pipe gallery, labeled sample port

C. Effluent Characteristics

1. List here and attach information on any water additives used at the facility (including chemicals for pH adjustment, dechlorination, control of biological growth, and control of corrosion and scale in water pipes):

polymer (coagulant), sodium hypochlorite, lime stone contactor

2. Please report here any known remediation activities or water-quality issues in the vicinity of the discharge.

none

3. Are aluminum-containing coagulants used at this facility? Yes No

4. Does the discharge contain residual chlorine? Yes ✓ No

5. Does the facility provide treatment to remove arsenic from the raw water source? Yes No

6. Are phosphorus-containing chemicals added to the treated water at this facility? Yes No

7. All applicants must attach a separate sheet listing all laboratory results (minimum of five) for total recoverable aluminum (in micrograms per liter) taken within the last six months. Do not include dilution when recording your results. See Section 4.4.5 of General Permit for more information.

No effluent data, Jackson Water Precinct has not discharged to date, backwash water is recycled.

8. Please include the following effluent data for each outfall:

Characteristic (report if measured)

Average Monthly

Maximum Daily

Discharge Flow (gpd) N/A

TSS (mg/l) N/A

pH (s.u.) N/A

(min) _____

(max) _____

Total Recoverable Aluminum (ug/l) N/A

Total Residual Chlorine (ug/l) N/A

(continued on next page)

8. Continued

Characteristic (report if measured)

Whole Effluent Toxicity (%) LC50 NA and/or C-NOEC NA

9. If the discharge contains aluminum and/or residual chlorine, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water, the dilution factor, and attach any calculations used to support stream flow and dilution calculations (See Appendix VII for dilution calculations and additional information):

7Q10 NA cfs Dilution Factor NA cfs

D. Endangered Species Act Eligibility

1. Using the instructions in Appendix I of the PWTF GP, under which criterion listed in Part II are you eligible for coverage under this general permit?

A ☒ B ☐ C ☐ D ☐ E ☐ F ☐

2. If you selected criteria D or F, has consultation with the federal services been completed? Yes ☐ No ☐ NA

3. If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received?

Yes ☐ No ☐ NA

4. Attach documentation of ESA eligibility as described below and required at Part 3.4.1 and Appendix I, Part III, Step 4, of the General Permit.

Criterion A - No federally-listed threatened or endangered species or federally-designated critical habitat are present: A copy of the most current county species list pages for the county(ies) where your site or facility and discharges are located. You must also include a statement on how you determined that no listed species or critical habitat are in proximity to your site or facility or discharge locations.

Criterion B - Section 7 consultation completed with the Service(s) on a prior project: A copy of the USFWS's and/or NMFS's, as appropriate, biological opinion or concurrence on a finding of "unlikely to adversely effect" regarding the ESA Section 7 consultation.

Criterion C - Activities are covered by a Section 10 Permit: A copy of the USFWS's and/or the NMFS's, as appropriate, letter transmitting the ESA Section 10 authorization.

Criterion D - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" federally-listed species or federally-designated critical habitat (not including the four species of concern identified in Section I of Appendix I): A copy of the USFWS's and/or the NMFS's, as appropriate, letter or memorandum concluding that the discharge is consistent with the general permit's "not likely to adversely affect" determination.

Criterion E - Activities are covered by certification of eligibility: A copy of the documents originally used by the other operator of your site or facility (or area including your site) to satisfy the documentation requirement of Criteria A, B, C or D.

Criterion F - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" species of concern, as identified in Section I of Appendix I: A copy of the USFWS and/or the NMFS, as appropriate, concurrence with the applicant's determination that the discharge is "not likely to adversely affect" listed species.

E. National Historic Properties Act Eligibility

1. Using the instructions in Appendix III of the PWTGP, under which criterion listed in Part III are you eligible for coverage under this general permit?

1 _____ 2 _____ 3 _____

2. Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ No ☒
 If yes, attach the results of the consultation(s).

F. Certification

I certify that the discharge for which I am seeking coverage under the general permit consists solely of a surface water discharge from a potable water treatment facility. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature *[Signature]* Date 11/16/09
Printed Name and Title System Manager

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Note: Permits No. MAG640000 and NHG640000 may be found at www.epa.gov/region1/npdes/pwtfgp.html

TREATMENT BUILDING
EF = 776.00

TOC 782.67

15,000 GALLON
HOLDING TANK

RAW WATER
PUMP STATION

SLAB
775.42 775.37 775.37
775.34 X

RELOCATED EXISTING
EMERGENCY GENERATOR BOLLARD TYP

INV IN 770.0

NPDES OUTFALL
INV-OUT 769.0'

TRAILION BEDS TO BE FIELD LOCATED BY CONTRACTOR

EXISTING FILTRATION BEDS TO BE FIELD LOCATED BY CONTRACTOR



